CONTENTS OF VOLUME 421

February 1990

BENNET Laura, JOHNSTON Barbara M., VALE W.W. & GLUCKMAN P.D. The effects of corticotrophin-releasing factor and two antagonists on breathing movements in fetal sheep. 1

AICKIN C. Claire & BRADING Alison F. Effect of Na^+ and K^+ on Cl^- distribution in guinea-pig vas deferens smooth muscle: evidence for Na^+, K^+, Cl^- co-transport. 13

AICKIN C. Claire & BRADING Alison F. The effect of loop diuretics on Cl^- transport in smooth muscle of the guinea-pig vas deferens and taenia from the caecum. 33

JACOB Ron Agonist-stimulated divalent cation entry into single cultured human umbilical vein endothelial cells. 55

PECK Carol K. Neuronal activity related to head and eye movements in cat superior colliculus. 79

MEDBØ Jon Ingulf & SEJERSTED Ole M. Plasma potassium changes with high intensity exercise. 105

DIAZ Jorge & PÉCOT-DECHAVASSINE Monique Nerve sprouting induced by a piece of peripheral nerve placed over a normally innervated frog muscle. 123

YAZAWA Kazuto & KAMEYAMA Masaki Mechanism of receptor-mediated modulation of the delayed outward potassium current in guinea-pig ventricular myocytes. 135

OSMANOVIĆ S.S. & SHEFNER Sarah A. γ-Aminobutyric acid responses in rat locus coeruleus neurones *in vitro*: a current-clamp and voltage-clamp study. 151

ANDREATTA-VAN LEYEN Sheila, AVERILL David B. & GUERTZENSTEIN Pedro G. Cardiorespiratory effects induced by acetazolamide on the ventromedullary surface of the cat. 171

ENG Douglas L., GORDON Thomas R., KOCSIS Jeffery D. & WAXMAN Stephen G. Current-clamp analysis of a time-dependent rectificaton in rat optic nerve. 185

DALE N. & KANDEL E. R. Facilitatory and inhibitory transmitters modulate spontaneous transmitter release at cultured *Aplysia* sensorimotor synapses. 203

HARE William A. & OWEN W. Geoffrey Spatial organization of the bipolar cell's receptive field in the retina of the tiger salamander. 223

BOURQUE Charles W. Intraterminal recordings from the rat neurohypophysis *in vitro*. 247

KROS C.J. & CRAWFORD A.C. Potassium currents in inner hair cells isolated from the guinea-pig cochlea. 263

PEERS C., LANG B., NEWSOM-DAVIS J. & W.-WRAY D. Selective action of myasthenic syndrome antibodies on calcium channels in a rodent neuroblastoma × glioma cell line. 293

KLOPFENSTEIN H. Sidney, MATHIAS David W., BERNATH Gregory A. & COGSWELL Terrence L. Increasing atrial pressure during cardiac tamponade does not elevate plasma levels of the peptide ANP in conscious dogs. 309

NORMANN Richard A. & PERLMAN Ido Background and bleaching adaptation in luminosity type horizontal cells in the isolated turtle retina. 321

FELDMEYER D., MELZER W. & POHL Barbara Effects of gallopamil on calcium release and intramembrane charge movements in frog skeletal muscle fibres. 343

NAKAYAMA S. & TOMITA T. Depletion of intracellular free Mg^{2+} in Mg^{2+}- and Ca^{2+}-free solution in the taenia isolated from guinea-pig caecum. 363

PEDERSEN Peter Steen Chloride permeability regulation via a cyclic AMP pathway in cultured human sweat duct cells. 379

FALK G., FREEMAN M., MARSHALL A.T., PRENTON E., SHIELLS R.A. & SLACK I. Reversal and inhibition of cholera toxin-induced secretion in isolated rabbit ileum. 399

MAGLIOLA Lawrence & JONES Allan W. Sodium nitroprusside alters Ca^{2+} flux components and Ca^{2+}-dependent fluxes of K^+ and Cl^- in rat aorta. 411

GORDON L.G.M. Transient electrical phenomenon of the voltage-clamped toad urinary bladder. 425

ETTER Elaine F. The effect of phenylglyoxal on contraction and intramembrane charge movement in frog skeletal muscle. 441

SHIAU Yih-Fu Mechanism of intestinal fatty acid uptake in the rat: the role of an acidic microclimate. 463

JARAMILLO-JUÁREZ F., MELLO AIRES M. & MALNIC G. Urinary and proximal tubule acidificaton during reducton of renal blood flow in the rat. 475

KALFAKAKOU V. & SIMONS T.J.B. Anionic mechanisms of zinc uptake across the human red cell membrane. 485

JONES S.V. Penelope, BARKER Jeffery L., GOODMAN Miriam B. & BRANN Mark R. Inositol trisphosphate mediates cloned muscarinic receptor-activated conductances in transfected mouse fibroblast A9 L cells. 499

CHEN Guifa & SUZUKI Hikaru Calcium dependency of the endothelium-dependent hyperpolarization in smooth muscle cells of the rabbit carotid artery. 521

KATAFUCHI Toshihiko & KOIZUMI Kiyomi Fastigial inputs to paraventricular neurosecretory neurones studied by extra- and intracellular recordings in rats. 535

VALLBO Åke B. & AL-FALAHE Najem A. Human muscle spindle response in a motor learning task. 553

GORDON Debra A., ENOKA Roger M. & STUART Douglas G. Motor-unit force potentiation in adult cats during a standard fatigue test. 569

GORDON Debra A., ENOKA Roger M., KARST Gregory M. & STUART Douglas G. Force development and relaxation in single motor units of adult cats during a standard fatigue test. 583

GRANZIER Henk L.M. & POLLACK Gerald H. The descending limb of the force–sarcomere length relation of the frog revisited. 595

DEITMER Joachim W. & SZATKOWSKI Marek Membrane potential dependence of intracellular pH regulaton by identified glial cells in the leech central nervous system. 617

HOLLINGWORTH S., MARSHALL M.W. & ROBSON E. The effects of tetracaine on charge movement in fast twitch rat skeletal muscle fibres. 633

SUZUKI S., TACHIBANA M. & KANEKO A. Effects of glycine and GABA on isolated bipolar cells of the mouse retina. 645